IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Lirette, et al

Ser. No.: 08/484,171

06/07/95 Filed:

For:

Centralizer

999999999 Art Unit:

Examiner:

F. Tsay

3506

Atty Dock. No.: WEAA 173

6/0

PATENT

RESPONSE TO OFFICE ACTION MAILED 3/18/96

Assistant Commissioner For Patents Washington, D.C. 20231 RECEIVED

JUN 2 6 1996

GROUP 3500

Dear Sir:

This is a Response to the Office Action mailed 3/18/96 (Paper No. 5). Please enter the amendments that follow.

IN THE CLAIMS:

/Without abandoning any invention or waiving any rights, cancel claims/1 - 20.

Ænter new claims 21 - 36:

A centralizer apparatus comprising

a tubular body with an exterior surface,

a first collar movably emplaced around the tubular body and movable longitudinally thereon,

a first groove in the exterior surface of the tubular body, the groove defined by a top side wall, a bottom side wall, and a middle wall therebetween,

the first collar movably disposed in the groove, and the first groove top side wall and bottom side wall limiting first collar movement,

a plurality of spring bows, each spring bow having a first end spaced apart from a second end, each spring bow biased outwardly from the tubular body, the first ends

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